

Recombinant human 17 beta-HSD11/HSD17B11 protein

Catalog Number: ATGP0848

PRODUCT INFORMATION

Expression system

E.coli

Domain

20-285aa

UniProt No.

Q8NBQ5

NCBI Accession No.

NP_057329

Alternative Names

Hydroxysteroid 17-beta dehydrogenase 11, Estradiol 17-beta-dehydrogenase 11, DHRS8, PAN1B, SDR16C2, 17-beta-hydroxysteroid dehydrogenase 11, 17-beta-HSD 11, 17bHSD11, 17betaHSD11, 17-beta-hydroxysteroid dehydrogenase XI, 17-beta-HSD XI, 17betaHSDXI, Cutaneous T-cell lymphoma-associated antigen HD-CL-03, CTCL-associated antigen HD-CL-03, Dehydrogenase/reductase SDR family member 8, Retinal short-chain dehydrogenase/reductase 2, retSDR2, Short chain dehydrogenase/reductase family 16C member 2

PRODUCT SPECIFICATION

Molecular Weight

31.4 kDa (287aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 5mM DTT, 20% glycerol

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

HSD17B11, also known as DHRS8 (dehydrogenase/reductase SDR family member 8), belongs to the HSD17B family of proteins, which regulate the availability of steroids within various tissues throughout the body. It is

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widely expressed with highest levels found in retina, pancreas, kidney, liver, lung, adrenal, small intestine, ovary and heart as well as in steroidogenic cells. This protein converts androstan-3-alpha, 17-beta-diol (3-alpha-diol) to androsterone, suggesting it may participate in androgen metabolism during steroidogenesis. Recombinant human HSD17B11 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

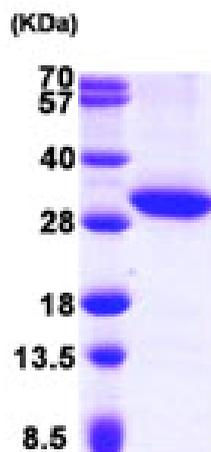
MGSSHHHHHH SGLVPRGSH MESFVKLFIP KRRKSVTGEI VLITGAGHGI GRLTAYEFAK LKSKLVLWDI NKHGLEETAA
KCKGLGAKVH TFVVDCSNRE DIYSSAKKVK AEIGDVSILV NNAGVVYTSDFATQDPQIE KTFEVNVLAH FWTTKAFLPA
MTKNNHGHIV TVASAAGHVS VPFLAYCSS KFAAVGFHKT LTDELAALQI TGVKTTCLCP NRVNTGFIKN PSTSLGPTLE
PEEVNRLMH GILTEQKMIF IPSSIAFLT LERILPERFL AVLKQKI

General References

Rotinen M., et al. (2010) *J Steroid Biochem Mol Biol.* 122(4):164-71.
Nakamura Y., et al. (2009) *Neoplasma.* 56(4):317-20.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)